L Number	Hits	Search Text	DB	Time stamp
1	23	"5631499"	USPAT;	2003/11/29 11:39
			US-PGPUB;	
			EPO; JPO;	
	25	#E2004E0#	DERWENT	2002/11/20 11 22
_	25	"5298459"	USPAT; US-PGPUB;	2003/11/29 11:39
			EPO; JPO;	
			DERWENT	
_	48	"5376584"	USPAT;	2002/01/04 15:07
			US-PGPUB;	
			EPO; JPO;	
	_		DERWENT	
-	40	"5137845"	USPAT;	2002/01/04 15:07
			US-PGPUB;	
			EPO; JPO; DERWENT	
_	3	"5424581"	USPAT;	2002/01/04 15:07
	3		US-PGPUB;	2002/01/01 13:07
			EPO; JPO;	
			DERWENT	
-	105	"5298459" "5376584" "5137845" "5424581"	USPAT;	2002/01/07 08:06
			US-PGPUB;	
			EPO; JPO;	
_	1	5946590.pn. and ("4" metallurgy)	DERWENT USPAT;	2002/01/07 09:51
	τ	STOOTO.phi. and (4 mecattury)	US-PGPUB;	2002/01/07 09.31
1		·	EPO; JPO;	
			DERWENT	
-	45	(ubm barrier (under adj bump adj	USPAT;	2002/01/07 08:52
1		metallurgy)) near3 ((cu near1 (ti ni))	US-PGPUB;	
		(copper near (titanium nikel)))	EPO; JPO;	
	270620	(ubm barrier blm (ball adj limiting adj	DERWENT USPAT;	2002/01/07 08:52
	270020	metallurgy) (under adj bump adj	US-PGPUB;	2002,01,0, 00.32
		metallurgy))	EPO; JPO;	
			DERWENT	
-	270006	(ubm barrier (ball adj limiting adj	USPAT;	2003/03/13 08:10
		metallurgy) (under adj bump adj	US-PGPUB;	
		metallurgy))	EPO; JPO; DERWENT	
_	47	((ubm barrier blm (ball adj limiting adj	USPAT;	2002/06/13 07:47
	٦,	metallurgy) (under adj bump adj	US-PGPUB;	
		metallurgy))) near3 ((cu near1 (ti ni))	EPO; JPO;	
		(copper near (titanium nikel)))	DERWENT	
-	2	(((ubm barrier blm (ball adj limiting adj	USPAT;	2002/01/07 08:53
		metallurgy) (under adj bump adj	US-PGPUB;	
]		metallurgy))) near3 ((cu near1 (ti ni)) (copper near (titanium nikel)))) not ((ubm	EPO; JPO; DERWENT	
		barrier (under adj bump adj metallurgy))	DEUMENT	
		near3 ((cu near1 (ti ni)) (copper near	,	
]		(titanium nikel))))		
-	10	5384283.URPN.	USPAT;	2002/01/07 08:56
			US-PGPUB;	
			EPO; JPO;	
_	43	4273859.URPN.	DERWENT USPAT;	2002/01/07 09:01
-	43	42/3039. UKEN.	US-PGPUB;	2002/01/07 09:01
]			EPO; JPO;	
			DERWENT	
-	32	4742023.URPN.	USPAT;	2002/01/07 09:04
			US-PGPUB;	
			EPO; JPO;	
	^	E046E00 nn and tin	DERWENT	2002/01/07 00-52
-	0	5946590.pn. and tin	USPAT; US-PGPUB;	2002/01/07 09:53
			EPO; JPO;	
			DERWENT	
		L		·

-	1	5719070.pn. and tin	USPAT; US-PGPUB;	2002/01/07 09:54
			EPO; JPO;	
			DERWENT	
-	0	5946590.pn. and sn	USPAT;	2002/01/07 09:53
			US-PGPUB;	
			EPO; JPO;	
_	1	6030512.pn. and (tin sn)	DERWENT USPAT;	2002/01/07 09:54
	_	Cososiz.pii. and (cin sii)	US-PGPUB;	2002/01/07 09.54
i			EPO; JPO;	
			DERWENT	
_	106	"5239198"	USPAT;	2002/05/03 08:32
	1		US-PGPUB; EPO; JPO;	
			DERWENT	
-	0	"5239198" and (hmt (high adj melt\$3 adj	USPAT;	2002/05/03 08:37
		temperature))	US-PGPUB;	
			EPO; JPO;	
1-	23	semiconductor and ((solder adj (bump ball))	DERWENT USPAT;	2002/05/03 08:50
		with (hmt (high adj melt\$3 adj	US-PGPUB;	2002/03/03 08.30
		temperature)))	EPO; JPO;	
	_	/#5450007# / #5450505# · #55505#	DERWENT	
-	6	("5459287" "5463191" "5541368" "5587885" "5591941" "5841198").PN.	USPAT	2002/05/03 08:52
_	6		USPAT	2002/05/03 08:54
-	ı	6186392.URPN.	USPAT	2002/05/03 08:56
-	25	("3960279" "4004261" "4346516"	USPAT	2002/05/03 08:57
		"4801065" "4830264" "4983804"		
e e		"5118027" "5299730" "5346775"		
		"5401911" "5447886" "5531942" "5539153" "5620927" "5643831"		
		"5674785" "5739585" "5816482"		
		"5839641" "5841198" "5867082"		
		"5872400" "5899737" "5986348"		
_	6	"6100175").PN. ("5459287" "5463191" "5541368"	HCDATE	2002/05/02 00-04
	1	"5587885" "5591941" "5841198").PN.	USPAT	2002/05/03 09:04
-	6	5841198.URPN.	USPAT	2002/05/03 09:05
-	6	5841198.URPN.	USPAT	2002/05/03 09:05
-	20	(US-6350669-\$ or US-6165885-\$ or	USPAT	2002/05/03 14:47
		US-6121069-\$ or US-5959355-\$ or US-5953623-\$ or US-5736074-\$ or		
		US-5591941-\$ or US-5468995-\$ or		
		US-5841198-\$ or US-6283358-\$ or		
:	1	US-6186392-\$ or US-5986348-\$ or		
		US-5872400-\$ or US-5346775-\$ or		
	1	US-4983804-\$ or US-5946590-\$ or US-5298459-\$ or US-6201679-\$ or		
		US-6030512-\$ or US-5719070-\$).did.		
-	7	((US-6350669-\$ or US-6165885-\$ or	USPAT;	2002/05/03 14:48
		US-6121069-\$ or US-5959355-\$ or	US-PGPUB;	
		US-5953623-\$ or US-5736074-\$ or	EPO; JPO;	
		US-5591941-\$ or US-5468995-\$ or US-5841198-\$ or US-6283358-\$ or	DERWENT	
		US-6186392-\$ or US-5986348-\$ or		
		US-5872400-\$ or US-5346775-\$ or		
		US-4983804-\$ or US-5946590-\$ or		
		US-5298459-\$ or US-6201679-\$ or		
		US-6030512-\$ or US-5719070-\$).did.) and (pad near3 (cu copper))		
-	50	((ubm barrier blm (ball adj limiting adj	USPAT;	2002/06/13 07:48
		metallurgy) (under adj bump adj	US-PGPUB;	
		<pre>metallurgy))) near3 ((cu near1 (ti ni))</pre>	EPO; JPO;	
	100	(copper near (titanium nikel)))	DERWENT	0000106170 07 57
-	100	<pre>(ubm (ball adj limiting adj metallurgy) (under adj bump adj metallurgy)) same</pre>	USPAT; US-PGPUB;	2002/06/13 07:50
1		barrier	EPO; JPO;	
] [DERWENT	

-	178	(ubm (ball adj limiting adj metallurgy)	USPAT;	2002/06/13 08:05
Ì		(under adj bump adj metallurgy)) and	US-PGPUB;	
		barrier	EPO; JPO;	
			DERWENT	
_	0	257/772,773,776,779,780	USPAT;	2002/06/13 07:52
		20171127110711071	US-PGPUB;	2002/00/13 07.32
			l .	
			EPO; JPO;	
		055 /550 055 /550 055 /550 055 /550	DERWENT	
-	5054	257/772 257/773 257/776 257/779 257/780	USPAT;	2002/06/13 07:53
			US-PGPUB;	
			EPO; JPO;	1
			DERWENT	
_	41	((ubm (ball adj limiting adj metallurgy)	USPAT;	2002/06/13 07:53
		(under adj bump adj metallurgy)) and	US-PGPUB;	2002/00/13 07.33
				1
		barrier) and (257/772 257/773 257/776	EPO; JPO;	i
	_	257/779 257/780)	DERWENT	
-	8	,	USPAT	2002/06/13 07:57
		"5888892" "6196443" "6251501"		
		"6258705" "6281106").PN.		
_	2	("5470787" "5872404").PN.	USPAT	2002/06/13 07:57
1_	1	6281106.URPN.	USPAT	2002/06/13 07:57
[_ i	7			
⁻	I	5977632.URPN.	USPAT	2002/06/13 08:02
	2	6201305.URPN.	USPAT	2002/06/13 08:02
-	2	("5327013" "5977632").PN.	USPAT	2002/06/13 08:03
j -	2	("5327013" "5977632").PN.	USPAT	2002/06/13 08:03
-	2	6201305.URPN.	USPAT	2002/06/13 08:03
_	500	(ubm (ball adj limiting adj metallurgy)	USPAT;	2002/06/13 08:06
		(under adj bump adj metallurgy))	US-PGPUB;	2002,00,13 00.00
		(where any sump any mecattary)		1
			EPO; JPO;	
			DERWENT	
-	90	(257/772 257/773 257/776 257/779 257/780)	USPAT;	2002/06/13 08:06
		and ((ubm (ball adj limiting adj	US-PGPUB;	
		metallurgy) (under adj bump adj	EPO; JPO;	
		metallurgy)))	DERWENT	
_	49	((257/772 257/773 257/776 257/779 257/780)	USPAT;	2002/06/13 08:18
l i	13	and ((ubm (ball adj limiting adj		2002/00/13 08:18
			US-PGPUB;	
		metallurgy) (under adj bump adj	EPO; JPO;	
		<pre>metallurgy)))) not (((ubm (ball adj</pre>	DERWENT	
		limiting adj metallurgy) (under adj bump		
		adj metallurgy)) and barrier) and (257/772		ĺ
		257/773 257/776 257/779 257/780))		
-	1	"5323051".PN.	USPAT	2002/06/13 08:07
l _	6	("5420073" "5470787" "5767010"	USPAT	2002/06/13 08:09
	o	"5773359" "5903058" "6107180").PN.	USERI	2002/00/13 08:09
_	_	, , , , , , , , , , , , , , , , , , , ,	HCDAE	2000/06/12 20 22
-	0	6118180.URPN.	USPAT	2002/06/13 08:13
-	3	("5162264" "5220199" "5726501").PN.	USPAT	2002/06/13 08:13
-	4	("3697828" "4710798" "5046161"	USPAT	2002/06/13 08:15
		"5075965").PN.		
-	11	5726501.URPN.	USPAT	2002/06/13 08:16
	370	(257/772 257/773 257/776 257/779 257/780)	USPAT;	2002/06/13 08:20
		and (barrier adj layer)	US-PGPUB;	2502,00,13 00.20
]	İ			
		·	EPO; JPO;	
			DERWENT	
-	352	((257/772 257/773 257/776 257/779 257/780)	USPAT;	2002/06/13 08:20
[and (barrier adj layer)) not (((ubm barrier	US-PGPUB;	
		blm (ball adj limiting adj metallurgy)	EPO; JPO;	
		(under adj bump adj metallurgy))) near3	DERWENT	
		((cu nearl (ti ni)) (copper near (titanium	SHAMMA	
		nikel)))) not (((ubm (ball adj limiting		
		adj metallurgy) (under adj bump adj		
		metallurgy)) and barrier) and (257/772		
		257/773 257/776 257/779 257/780)) not		
		(((257/772 257/773 257/776 257/779 257/780)		
		and ((ubm (ball adj limiting adj		
		metallurgy) (under adj bump adj		1
				i
		metallurgy)))) not (((ubm (ball adj		
		limiting adj metallurgy) (under adj bump		Į.
	}	adj metallurgy)) and barrier) and (257/772		i f
	1	257/773 257/776 257/779 257/780)))		•

-	15	1	USPAT;	2002/06/13 08:27
		and (barrier adj layer)) not (((ubm barrier	US-PGPUB;	,
		blm (ball adj limiting adj metallurgy)	EPO; JPO;	
		((cu near1 (ti ni)) (copper near (titanium	DERWENT	
		nikel)))) not (((ubm (ball adj limiting		
		adj metallurgy) (under adj bump adj		
		metallurgy)) and barrier) and (257/772		
		257/773 257/776 257/779 257/780)) not		
		(((257/772 257/773 257/776 257/779 257/780)		
		and ((ubm (ball adj limiting adj		
		metallurgy) (under adj bump adj		
		<pre>metallurgy)))) not (((ubm (ball adj</pre>		
		limiting adj metallurgy) (under adj bump		
		adj metallurgy)) and barrier) and (257/772		
		257/773 257/776 257/779 257/780)))) and (bump ball) and metallurgy		
-	49	((257/772 257/773 257/776 257/779 257/780)	USPAT;	2002/06/13 08:22
}		and (barrier adj layer)) and metallurgy	US-PGPUB;	2002/00/13 00.22
		5 - 12 - 17 - 17 - 17 - 17 - 17 - 17 - 17	EPO; JPO;	
			DERWENT	
-	8	("4840302" "5508229" "5547740"	USPAT	2002/06/13 08:23
		"5888892" "6196443" "6251501"		
	7.00	"6258705" "6281106").PN.		
-	762	(solder adj (bump ball)) and metallurgy	USPAT;	2002/06/13 08:28
			US-PGPUB;	
			EPO; JPO; DERWENT	
_	2	((solder adj (bump ball)) and metallurgy)	USPAT;	2002/06/13 08:29
}		and (barrier with (groove protrusion	US-PGPUB;	
		projection ridge))	EPO; JPO;	
			DERWENT	
-	6	((solder adj (bump ball)) and metallurgy)	USPAT;	2002/06/13 08:29
		and (barrier with (groove recess protrusion	US-PGPUB;	
		projection ridge))	EPO; JPO;	
_	266	((solder adj (bump ball)) and metallurgy)	DERWENT USPAT;	2002/06/13 08:30
	200	and barrier	US-PGPUB;	2002/00/13 08:30
			EPO; JPO;	
			DERWENT	
-	173	(((ubm barrier blm (ball adj limiting adj	USPAT;	2002/06/13 08:30
		metallurgy) (under adj bump adj	US-PGPUB;	
		metallurgy))) near3 ((cu near1 (ti ni))	EPO; JPO;	
		(copper near (titanium nikel)))) (((ubm (ball adj limiting adj metallurgy) (under	DERWENT	
		adj bump adj metallurgy)) and barrier) and		
		(257/772 257/773 257/776 257/779 257/780))		
		(((257/772 257/773 257/776 257/779 257/780)		
		and ((ubm (ball adj limiting adj		
		metallurgy) (under adj bump adj		
		<pre>metallurgy)))) not (((ubm (ball adj</pre>		
		limiting adj metallurgy) (under adj bump		
		adj metallurgy)) and barrier) and (257/772 257/773 257/776 257/779 257/780)))		
		(((257/772 257/773 257/776 257/779 257/780)		
		and (barrier adj layer)) and metallurgy)		
L		,		

-	219	and barrier) not ((((ubm barrier blm (ball adj limiting adj metallurgy) (under adj bump adj metallurgy))) near3 ((cu near1 (ti ni)) (copper near (titanium nikel))) (((ubm (ball adj limiting adj metallurgy) (under adj bump adj metallurgy)) and barrier) and (257/772 257/773 257/776 257/779 257/780)) (((257/772 257/773 257/776 257/779 257/780)) and ((ubm (ball adj limiting adj metallurgy) (under adj bump adj metallurgy)))) not (((ubm (ball adj limiting adj metallurgy)) (under adj bump adj metallurgy))) and barrier) and	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/13 08:31
		((257/772 257/773 257/776 257/779 257/780))) (((257/772 257/773 257/776 257/779 257/780)		
		and (barrier adj layer)) and metallurgy))		
_	10	"5130779" "5284797" "5350488" "5384284" "5403777" "5567654"	USPAT	2002/06/13 08:35
_	5		USPAT	2002/06/13 08:36
_	15	"5785236" "5795819").PN. 4761386.URPN.	USPAT	2002/06/13 08:38
-	5		USPAT	2002/06/13 08:40
-	0		USPAT	2002/06/13 08:40
-	10		USPAT	2002/06/13 08:46
_	8	"5872399"	USPAT; US-PGPUB; EPO; JPO;	2002/06/13 08:53
-	5	("5504277" "5521435" "5557844" "5668405" "5669783").PN.	DERWENT USPAT	2002/06/13 08:55
_	543	(ubm (underbump near metallization) (ball	USPAT;	2003/03/13 08:11
	225	near1 metallurgy) (under adj bump adj metallurgy))	US-PGPUB; EPO; JPO; DERWENT	0000 (00 (10 10 10
_	387	((ubm (underbump near metallization)(ball nearl metallurgy) (under adj bump adj metallurgy))) and (ti titanium chrom cr nickel ni gold au copper cu)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/12 10:46
_	118	(((ubm (underbump near metallization)(ball nearl metallurgy) (under adj bump adj metallurgy))) and (ti titanium chrom cr nickel ni gold au copper cu)) and (ti	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/12 10:48
_	26	titanium) and (nickel ni) and (gold au) (((ubm (underbump near metallization)(ball nearl metallurgy) (under adj bump adj metallurgy))) and (ti titanium) and (nickel ni) and (gold au)) and (angstroms	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/12 10:49
	110	micrometer)	TIGD2M	2002/02/12 00:16
_	118	((ubm (underbump near metallization)(ball nearl metallurgy) (under adj bump adj metallurgy))) and (ti titanium) and (nickel	USPAT; US-PGPUB; EPO; JPO;	2003/03/13 08:16
_	0	ni) and (gold au) 6489229.URPN.	DERWENT USPAT	2003/03/12 12:09
_	10	6489229.0RPN. ("3458925" "4434434" "4516525"	USPAT	2003/03/12 12:09
		"4622205" "4646958" "5137845" "5470787" "6107180" "6184061" "6417089").PN.		
-	4	("5349500" "5902686" "6251766" "6258703").PN.	USPAT	2003/03/12 13:47
_	10	("3663184" "4661375" "5162257" "5376584" "5480835" "5492235" "5736456" "5767010" "5773359"	USPAT	2003/03/12 13:48
_	27	"6133136").PN. ((ubm (underbump near metallization)(ball nearl metallurgy) (under adj bump adj	USPAT; US-PGPUB;	2003/03/12 16:13
		metallurgy)) with (ti titanium) with (nickel ni) with (gold au)	EPO; JPO; DERWENT	

	2	6348399.URPN.	USPAT	2003/03/12 16:18
	2	6348399.URPN.	USPAT	2003/03/12 16:18
_	9	("5323051" "5620928" "5656550"	USPAT	2003/03/12 16:19
		"5830800" "5925936" "5930603"		,,
	İ	"6004867" "6204559" "6238952").PN.		
-	2	6348399.URPN.	USPAT	2003/03/13 07:58
-	9	("5323051" "5620928" "5656550"	USPAT	2003/03/13 07:59
		"5830800" "5925936" "5930603" "6004867" "6204559" "6238952").PN.		
_	2617		USPAT;	2003/03/14 08:45
	2017	plm ((ball pad) near1 metallurgy) (under	US-PGPUB;	2003/03/14 08:43
-	ļ	adj bump adj metallurgy))	EPO; JPO;	
			DERWENT	
-	28	((ubm (underbump nearl metallization) blm	USPAT;	2003/03/13 10:20
		plm ((ball pad) near1 metallurgy) (under	US-PGPUB;	
		adj bump adj metallurgy))) with (ti	EPO; JPO;	
	0	titanium) with (nickel ni) with (gold au) 6179200.URPN.	DERWENT	2003/03/13 08:23
	7	("5493075" "5535936" "5607099"	USPAT USPAT	2003/03/13 08:23
	'	"5658827" "5775569" "5791552"	OSTAI	2003/03/13 00:23
		"5825629").PN.		
_	26	"5298459"	USPAT;	2003/03/13 08:33
			US-PGPUB;	
			EPO; JPO;	
_	28	"5268072"	DERWENT	2002/02/12 00 01
-	20	3266072	USPAT; US-PGPUB;	2003/03/13 08:34
			EPO; JPO;	
			DERWENT	
-	61	("5298459" "5268072") not6	USPAT;	2003/03/13 08:34
			US-PGPUB;	
			EPO; JPO;	
	4.0	(HEODOAEON HEOGOOTON)	DERWENT	0000 (00 (10 00 00
_	48	("5298459" "5268072") not (((ubm (underbump near1 metallization) blm plm ((ball pad)	USPAT;	2003/03/13 08:34
		near1 metallurgy) (under adj bump adj	US-PGPUB; EPO; JPO;	
		metallurgy))) with (ti titanium) with	DERWENT	
		(nickel ni) with (gold au))		
-	48	"5298459" "5268072 "	USPAT;	2003/03/13 08:35
			US-PGPUB;	
	:		EPO; JPO;	
_	15	("5298459" "5268072") and (ti titanium) and	DERWENT USPAT;	2003/03/13 09:02
	15	(nickel ni) and (gold au)	US-PGPUB;	2003/03/13 09:02
		(interior int) and (gota da)	EPO; JPO;	
			DERWENT	
	18	("4582745" "5137845" "5268072"	USPAT	2003/03/13 08:36
		"5418186" "5445705" "5456788" "5463638" "55433338" "56638564"		
		"5462638" "5543032" "5629564" "5705428" "5767010" "5775569"		
		"5902686" "5937320" "5946590"		
		"6015505" "6025649" "6130170").PN.		
-	3	"6387793"	USPAT;	2003/03/13 09:02
			US-PGPUB;	
			EPO; JPO;	
	10	/#2662104B #4661276B #6160067#	DERWENT	2002/02/22 22
-	10	("3663184" "4661375" "5162257" "5376584" "5480835" "5492235"	USPAT	2003/03/13 09:02
		"5736456" "5767010" "5773359"		
		"6133136").PN.		
-	30	3663184.URPN.	USPAT	2003/03/13 09:49
-	13	4514751.URPN.	USPAT	2003/03/13 09:50
-	7	("3037180" "3141226" "3287612"	USPAT	2003/03/13 09:55
		"3361592" "3395993" "3409809"		
	83	"3480412").PN. ((ubm (underbump nearl metallization) blm	HCDAM.	2002/02/12 10-01
_	83	plm ((ball pad) near1 metallization) blm	USPAT; US-PGPUB;	2003/03/13 10:21
	l	adj bump adj metallurgy))) and ((ti	EPO; JPO;	
		titanium) with (nickel ni) with (gold au))	DERWENT	

-	55	plm ((ball pad) near1 metallurgy) (under adj bump adj metallurgy))) and ((ti	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/13 12:33
		titanium) with (nickel ni) with (gold au))) not (((ubm (underbump near1 metallization) blm plm ((ball pad) near1 metallurgy) (under adj bump adj metallurgy))) with (ti	DERWENT	
	_	titanium) with (nickel ni) with (gold au))		1
-	10	6333559.URPN. ("4495222" "4761386" "4933305" "5130779" "5284797" "5350488" "5384284" "5403777" "5567654"	USPAT USPAT	2003/03/13 14:50 2003/03/13 14:50
		"6133136").PN.		
_	8	"6187680"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/13 15:24
_	4	("5136364" "6107170" "6133136" "6187680" "2002/0003302").PN.	USPAT	2003/03/13 15:24
-	21	5136364.URPN.	USPAT	2003/03/13 15:28
_	4	("5136364" "6107170" "6133136" "6187680" "2002/0003302").PN.	USPAT	2003/03/13 15:32
-	5	6187680.URPN.	USPAT	2003/03/13 16:19
-	9	("4495222" "4761386" "4933305" "5284797" "5350488" "5384284" "5403777" "5416278" "5567654").PN.	USPAT	2003/03/13 16:19
	2617	(ubm (underbump near metallization) blm plm ((ball pad) nearl metallurgy) (under adj bump adj metallurgy))	USPAT; US-PGPUB; EPO; JPO;	2003/03/14 09:49
-	70	al adj stack	DERWENT USPAT; US-PGPUB; EPO; JPO;	2003/03/14 08:49
_	0	((ubm (underbump near metallization) blm plm ((ball pad) nearl metallurgy) (under adj bump adj metallurgy))) with (al adj	DERWENT USPAT; US-PGPUB; EPO; JPO;	2003/03/14 08:49
_	873	stack) al near2 stack	DERWENT USPAT; US-PGPUB; EPO; JPO;	2003/03/14 08:49
_	0	((ubm (underbump near metallization) blm plm ((ball pad) nearl metallurgy) (under adj bump adj metallurgy))) with (al near2	DERWENT USPAT; US-PGPUB; EPO; JPO;	2003/03/14 08:49
_	4	<pre>stack) ((ubm (underbump near metallization) blm plm ((ball pad) nearl metallurgy) (under adj bump adj metallurgy))) and (al near2</pre>	DERWENT USPAT; US-PGPUB; EPO; JPO;	2003/03/14 09:02
	5	stack) 6187680.URPN.	DERWENT	2002/02/14 00:52
-	6257	plated near1 through near1 hole	USPAT USPAT; US-PGPUB; EPO; JPO;	2003/03/14 08:53 2003/03/14 09:03
_	0	<pre>(plated nearl through nearl hole) and ((embedding embedded) with (screen adj printing))</pre>	DERWENT USPAT; US-PGPUB; EPO; JPO;	2003/03/14 09:03
_	138	(embedding embedded) with (screen adj printing)	DERWENT USPAT; US-PGPUB; EPO; JPO;	2003/03/14 09:11
_	0	((embedding embedded) with (screen adj printing)) with "or"	DERWENT USPAT; US-PGPUB; EPO; JPO;	2003/03/14 09:06
_	0	((embedding embedded) with (screen adj printing)) with cvd	DERWENT USPAT; US-PGPUB; EPO; JPO;	2003/03/14 09:11
L			DERWENT	

	·	T		
-	0	(plated near1 through near1 hole) with cvd	USPAT;	2003/03/14 09:11
			US-PGPUB;	
	1		EPO; JPO;	
		6454.604	DERWENT	
_	0	6451681.URPN.	USPAT	2003/03/14 09:16
_	6		USPAT	2003/03/14 09:16
	10	"5864946" "6133136" "6187680").PN.		
-	19		USPAT	2003/03/14 09:19
		"5302219" "5442852" "5611884"		
		"5637832" "5658827" "5691245" "5744758" "5817404" "5902686"		
		"5925930" "6107180" "6143116"		
		"6181569" "6187680" "6192579"	ļ	
		"6341417").PN.		
_	13	5902686.URPN.	USPAT	2003/03/14 09:28
_	3	6258705.URPN.	USPAT	2003/03/14 09:31
-	10	1	USPAT	2003/03/14 09:32
		"5563102" "5736456" "5773359"	322112	2000,00,11 03.02
		"5902686" "5903058" "5904859"		i
		"6015652").PN.		
-	6	5904859.URPN.	USPAT	2003/03/14 09:35
-	3	("5773359" "5904859" "5985694").PN.	USPAT	2003/03/14 09:38
-	3	("5773359" "5904859" "5985694").PN.	USPAT	2003/03/14 09:39
-	5	("3809588" "4396900" "4434434"	USPAT	2003/03/14 09:39
1		"4747907" "5503286").PN.		
_	18	("3887760" "4921157" "4950623"	USPAT	2003/03/14 09:41
		"5048744" "5152451" "5160409"		
	ı	"5162257" "5167361" "5293006"		
		"5327013" "5407121" "5415944"		
		"5470787" "5499754" "5617989" "5629564" "5641113" "5767010").PN.		
_	501	(ubm (under near1 bump near1 metallurgy))	USPAT;	2003/03/14 09:50
	301	(dbm (dhder hearr bump hearr metarrurgy))	US-PGPUB;	2003/03/14 09:50
			EPO; JPO;	
			DERWENT	
_	50	((ubm (under nearl bump nearl metallurgy)))	USPAT;	2003/03/14 09:51
		near3 (titanium chrome nickel platinum)	US-PGPUB;	=====================================
	a		EPO; JPO;	
			DERWENT	
├ -	102	((ubm (under nearl bump nearl metallurgy)))	USPAT;	2003/03/14 09:51
		with (titanium chrome nickel platinum)	US-PGPUB;	
			EPO; JPO;	
		/850044408 / 850005458 / 8500008	DERWENT	
-	5	("5894410" "5990547" "6169329"	USPAT	2003/03/14 13:43
	0	"6175160" "6413851").PN. 6501185.URPN.	IIODAM.	0003/03/14 13 43
_	32	"5767010"	USPAT	2003/03/14 13:43
	52	0.0.040	USPAT; US-PGPUB;	2003/03/14 16:12
	l		EPO; JPO;	
- 11	4		DERWENT	
-	1	5767010.pn. and "42"	USPAT;	2003/03/14 16:14
		-	US-PGPUB;	. =, = = = = = = =
			EPO; JPO;	
			DERWENT	
-	1	5767010.pn. and (tin lead)	USPAT;	2003/03/14 16:14
			US-PGPUB;	
			EPO; JPO;	
		HC21004CH	DERWENT	0000 (07 (7)
-	2	"6319846"	USPAT;	2003/07/14 09:27
			US-PGPUB;	
			EPO; JPO;	
_	0	6319846.URPN.	DERWENT USPAT	2003/07/14 00:07
_	5	("4130454" "5244539" "5268048"	USPAT	2003/07/14 09:27 2003/07/14 09:27
	5	"5574386" "6134776").PN.	OSEAL	2003/01/14 09:21
_	9	("4495222" "4761386" "4933305"	USPAT	2003/07/14 09:33
	-	"5284797" "5350488" "5384284"		=500,01,11 05.55
		"5403777" "5416278" "5567654").PN.		
-	9	("4495222" "4761386" "4933305"	USPAT	2003/07/14 09:36
<u> </u>		"5284797" "5350488" "5384284"		
		"5403777" "5416278" "5567654").PN.		